	Application No.	Applicant(s)	<u> </u>
Notice of Allowability	10/019,332	SHINO ET AL.	(A)
	Examiner	Art Unit	
	Danny Wai Lun Leung	2633	
The MAILING DATE of this communication appearable communication appearable claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT (The Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in the or other appropriate communing GHTS. This application is subtant MPEP 1308.	is application. If not included cation will be mailed in due cou	ırse. THIS
<ol> <li>This communication is responsive to <u>after final amendment</u></li> </ol>	filed 1/4/2006.		
2. 🔀 The allowed claim(s) is/are <u>1-6</u> .			
3.   Acknowledgment is made of a claim for foreign priority un  a)   All b)   Some* c)   None of the:  1.   Certified copies of the priority documents have  2.   Certified copies of the priority documents have	been received. been received in Application	No	from the
<ol> <li>Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)).</li> </ol>	cuments have been received if	i this national stage application	i irom the
* Certified copies not received:	•		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requir	ements
4. A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give			ICE OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	t be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review (	PTO-948) attached	
1) 🗌 hereto or 2) 📋 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the ne header according to 37 CFR	drawings in the front (not the ba 1.121(d).	ck) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F</li> </ol>	sit of BIOLOGICAL MATER FOR THE DEPOSIT OF BIOL	IAL must be submitted. Note OGICAL MATERIAL.	e the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 🗆 Notice of Info	mal Patent Application (PTO-1	52)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Sum		<i></i> /
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Ma	ail Date mendment/Comment	
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🔲 Examiner's St	atement of Reasons for Allowa	nce
	9.		
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## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Bruno Polito on 2/2/2006 3:18 PM.

Claims 1 and 6 of the application has been amended as follows:

Claim 1. An optical communication apparatus in which light for transmission and light for receipt are propagated simultaneously over a sole cable to effect bidirectional communication, comprising:

light emitting means for emitting said light for transmission;

light receipt means for receiving said light; and

light guide means for guiding said light for transmission over said cable and for guiding said light to said light receipt means, wherein

a value of a light volume M of stray light generated with respect to said light receipt means satisfies the following relationship:

$$S - 2QN \ge M > S/2Q - N$$

Where Q is the value of a Q-value representing communication quality as required, S is light volume of a received signal from a communication partner and N is a sum total of a Gaussian noise.

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Claim 6. An optical communication method, comprising the steps of: emitting light for transmission from a light emitting means, receiving light at a light receipt means, and guiding said light for transmission and said light for receipt over a sole cable, said light for transmission and said light for receipt of substantially the same wavelength being propagated substantially simultaneously by said cable to effect bidirectional communication; wherein

value of a light volume M of stray light generated with respect to said light receipt means satisfies the following relationship:

$$S - 2QN \ge M > S/2Q - N$$

Where Q is the value of a Q-value representing communication quality as required, S is light volume of a received signal from a communication partner and N is a sum total of a Gaussian noise.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Danny Wai Lun Leung whose telephone number is (571) 272-5504. The examiner can normally be reached on 9:30am-7:00pm Mon-Thurs..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (571) 272-3022. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DWL February 2, 2006

JASON CHAN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

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